

Flight ID
Preflight

080831T

Lead Project Scientist

Storm

Gustav

LPS

Uhlen

- ____ 1. Participate in general mission briefing.
- ____ 2. Determine specific mission and flight requirements for assigned aircraft.
- ____ 3. Determine from field program director whether aircraft has operational fix responsibility and discuss with AOC flight director/meteorologist unless briefed otherwise by field program director.
- ____ 4. Contact HRD members of crew to:
 - a. Assure availability for mission.
 - b. Review field program safety checklist
 - c. Arrange ground transportation schedule when deployed.
 - d. Determine equipment status.
- ____ 5. Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
- ____ 5. Meet with AOC flight crew at least 2 hours before take-off for crew briefing. Provide copies of flight requirements and provide a formal briefing for the flight director, navigator, and pilots.
- ____ 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami).
- ____ 7. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
- ____ 7. Make sure each HRD flight crew members have life vests
- ____ 7. Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset.
- ____ 8. Collect "mess" fee (\$2.00) from all on-board HRD flight crew members.

In-Flight

- ____ 1. Confirm from AOC flight director that satellite data link is operative (information).
- ____ 2. Confirm camera mode of operation.
- ____ 3. Confirm data recording rate.
- ____ 4. Complete Lead Project Scientist Form.
- ____ 5. Check in with the flight director to make sure the mission is going as planned (i.e. turns are made when they are supposed to be made).

Post flight

- ____ 1. Debrief scientific crew.
- ____ 2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to MGOC.
- ____ 3. Gather completed forms for mission and turn in at the appropriate operations center. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]
- ____ 4. Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms.
- ____ 5. Obtain a copy of the radar DAT tapes. Turn in with completed forms.
- ____ 6. Obtain a copy of the all VHS videos from aircraft cameras (3-4 approx.). Turn in with completed forms.
- ____ 7. Obtain a copy of CD with all flight data. Turn in with completed forms.
- ____ 8. Determine next mission status, if any, and brief crews as necessary.
- ____ 9. Notify MGOC as to where you can be contacted and arrange for any further coordination required.
- ____ 10. Prepare written mission summary using Mission Summary form (due to Field Program Director a week after the flight).

Lead Project Scientist Check List

Storm or Project Gustav Experiment name TDR
 Date _____ Aircraft N432F Flight ID 080831E

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Unhorn</u>	Flight Director	<u>Parrish</u>
Radar	<u>Leighton</u>	Pilots	<u>Newman, Nelson</u>
Workstation	<u>Zhang</u>	Navigator	<u>Gallagher, Ebbhardt</u>
Cloud Physics		Systems Engineer	<u>Lynde</u>
Photographer/Observer /Guests	<u>J. Klimawitz</u>	Data Technician	<u>Smith</u>
Dropwindsonde	<u>Marks</u>	Electronics Technician	
AXBT/AXCP		Other	

B. Take-off and Landing Times and Locations:

Take-Off: _____ UTC Location: KMCF

Landing: _____ UTC Location: _____

Number of Eye Penetrations: 4

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
<u>31/10E</u>			<u>959</u>	

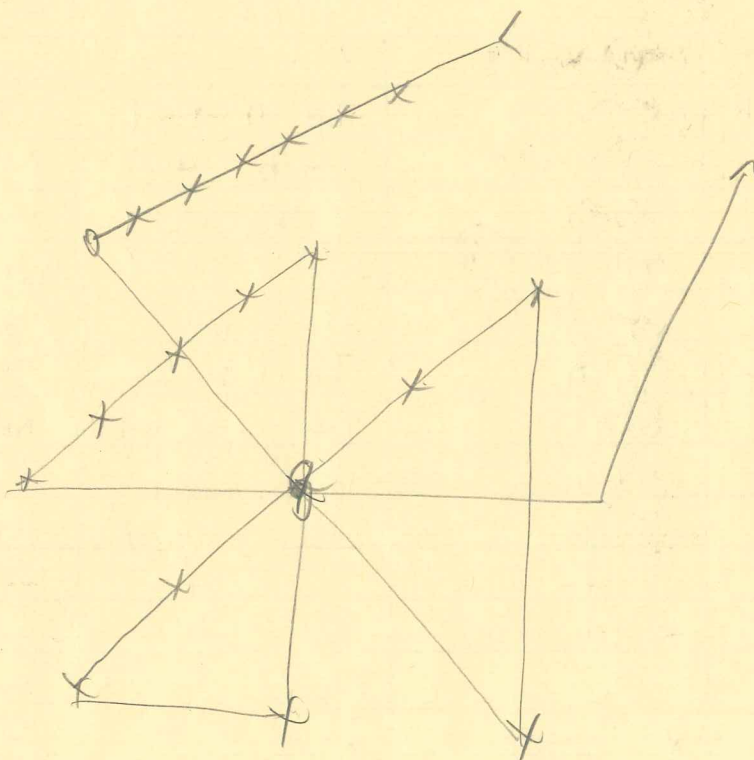
D. Mission Briefing:

- TDR with AABTS in front of storm
- 12000'
- modified rotated alpha

E. —Equipment Status (Up ↑, Down ↓, Not Available —, Not Used O)

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / Cds /Expendables/ Printouts
Radar/LF				
Doppler Radar/TA				
Cloud Physics				
Data System				
GPS sondes				
AXBT/AXCP				
Ozone instrument				
Workstation				
Videography				

REMARKS:



Lead Project Scientist Event Log

Date _____ Flight _____ LPS _____

Time	Event	Position	Comments
080805	T/O	KM EF	
083642	IP BT①	27.22 84.51	SST 28.5
084239	BT②	27.06 85.01	SST 29.1
084815	BT③	26.90 85.52	SST 29.2
085353	BT④	26.74 86.04	SST 29.2
085925	BT⑤	26.58 86.50	SST 29.0
090515	BT⑥	26.41 87.03	SST 28.9
091026	BT⑦/GPS①	26.22 87.38	Turn to SE/Begin Leg 1
091810	BT⑧	25.86 86.75	SST 29.4 150 mi NW eye
092850	BT⑨		SST 29.7 100 mi NW eye
0943		24.76 85.58	Hint of 2nd eyewall NW
094953	GPS② NNEW	24.47 85.21	max SFR 45 mph
095240	GPS③ E	24.30 85.11	958 mph
095715	GPS④ SEEW	24.06 84.79	SE EW open 38 m/s SFR
100607	GPS⑤	23.63 84.37	Clear area SE
101448	GPS⑥ BT⑩	23.38 83.93	End leg 1, Turn to 000
104156	GPS⑦ BT⑪	25.73 83.85	Turn to 125, Beg Leg ②
105604	BT⑫	25.11 84.53	Dud
110415	GPS⑬	24.70 85.09	NNEW 42 m/s SFR
110809	GPS⑭/BT⑬ E	24.51 85.31	SST 29.0 960 mb
111110	GPS⑭	24.34 85.48	SEEW 39 m/s SFR
112002	BT⑭	23.92 85.94	28.1 (?)
113410	BT⑮ GPS⑮	23.22 86.70	End leg ②, turn to 090
115045		22.95 85.47	Turn to 000, Beg leg ③
115133	GPS⑯/BT⑯	23.02 85.46	SST 29.2
121100			201/mph over
1217??	GPS⑰		

BT
Tape on
@ 0830

Charged
AAR BT Tape
@ 1025

29.0

eye

eye

NW

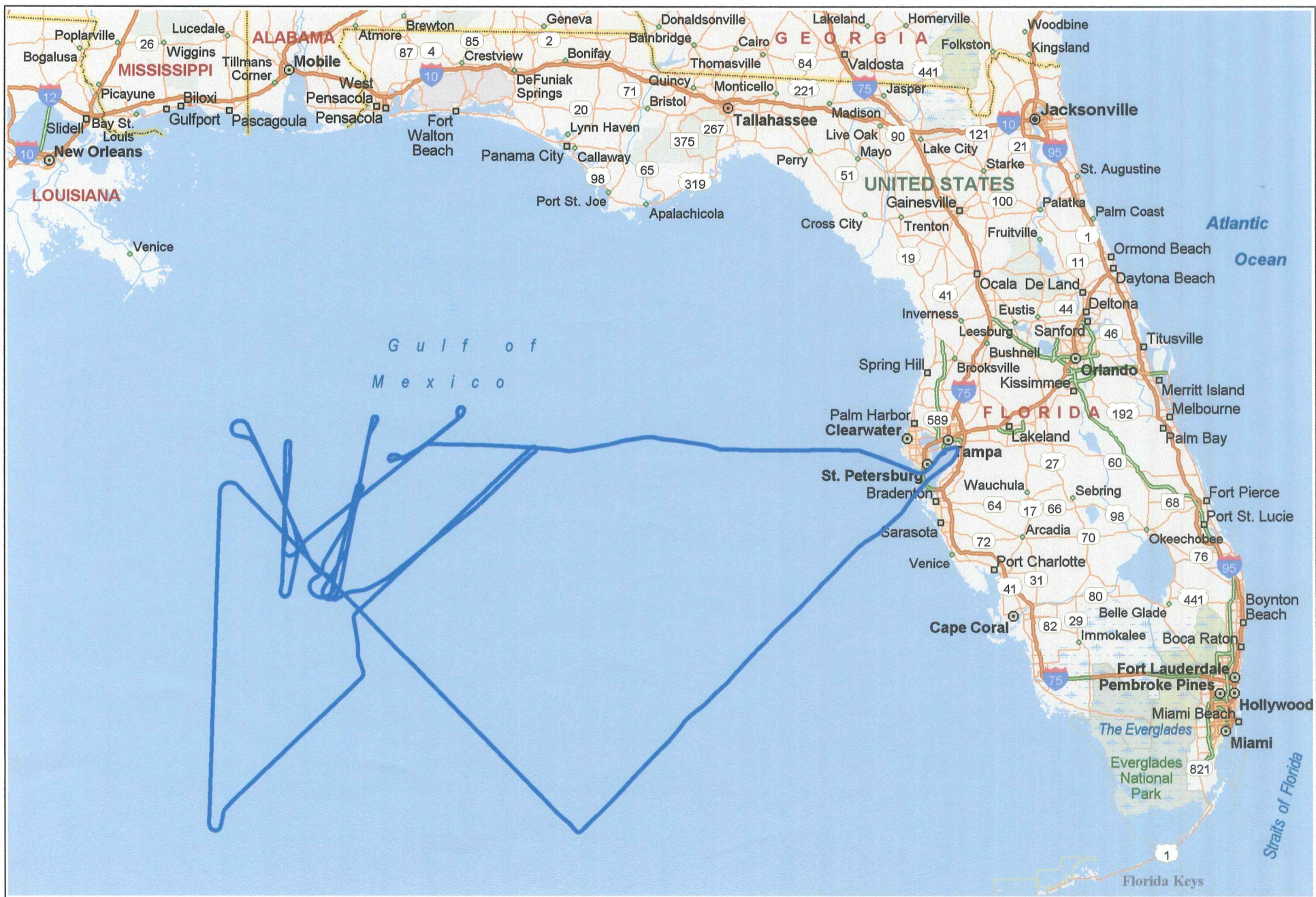
29.3

Lead Project Scientist Event Log

Date _____ Flight _____ LPS _____

[illegible]

HURRICANE GUSTAV 31AUG2008



0 mi 50 100 150 200 250